

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	9124	habermann.in. OR aventis.as. OR sanofi-aventis.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/05 13:08
L2	43	I1 AND hirudin AND (insulin OR proinsulin OR pro-insulin OR mini-proinsulin OR mini-pro-insulin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/05 13:09
L3	39	I2 and (fused OR fuse OR fusion OR chimera OR chimeric)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/05 13:09
L4	13	I1 AND (hirudin same (insulin OR proinsulin OR pro-insulin OR mini-proinsulin OR mini-pro-insulin))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/05 13:11
S1	47	habermann.in. and hirudin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 12:07
S2	9	habermann.in. and hirudin and insulin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:00
S3	9	habermann.in. and hirudin and insulin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:10
S4	8	(habermann.in. and hirudin and insulin) and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:08
S5	285	hirudin and insulin and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:10
S6	26	(hirudin near10 insulin) and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:46
S7	0	"5506120.pn"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:13
S8	2	"5506120".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:13
S9	1	"5506120".pn. and ((hirudin near10 insulin) and fusion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:13

## EAST Search History

S10	2	"5677172".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:54
S11	2	"5705355".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:55
S12	2	"6103502".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/06 12:55
S13	307	hirudin and fusion and (staphylokinase or urokinase)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 07:48
S14	5	hirudin near5 fusion and (staphylokinase or urokinase)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 07:55
S15	1	"5434073".pn. and insulin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:50
S16	627	hirudin and precipitate and pH	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 09:20
S17	34	hirudin and (precipitate near5 pH)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 09:40
S18	28	hirudin and purification and (precipitate near5 pH)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 09:50
S19	47	habermann.in. and hirudin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 09:50
S20	10	(habermann.in. and hirudin) and precipitate and ph	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 09:50
S21	10	(habermann.in. and hirudin) and precipitate and ph!	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:15
S22	9	"158986" and hirudin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:18

## EAST Search History

S23	197	hirudin and (ammonium adj sulfate) and pH	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:18
S24	195	hirudin and (ammonium adj sulfate) and purif\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:19
S25	3	hirudin near5 (ammonium adj sulfate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:27
S26	3	hirudin near10 (ammonium adj sulfate)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:28
S27	4	hirudin.ab. and purif\$ and (ammonium adj sulfate) and precipitat\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:28
S28	189	hirudin and purif\$ and (ammonium adj sulfate) and precipitat\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:29
S29	111	hirudin and purif\$ and ((ammonium adj sulfate) near5 precipitat\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:30
S30	143	hirudin and (purif\$ near5 precipitat\$) and salt	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:31
S31	126	hirudin and (purif\$ near4 precipitat\$) and salt	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:31
S32	108	hirudin and (purif\$ near3 precipitat\$) and salt	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:31
S33	1	habermann.in. and (ammonium adj sulfate) and hirudin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 10:52
S34	13	habermann.in. and precipitat\$ and hirudin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 12:15
S35	19	habermann.in. and hirudin and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 12:17

## EAST Search History

S36	8	habermann.in. and hirudin and fusion and insulin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 08:18
S37	20	(hirudin near5 insulin) and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 12:29
S38	26	(hirudin near10 insulin) and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/11 12:29
S39	1	"0055350".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 08:19
S40	2	"200055350".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 08:19
S41	13	habermann.in. and hirudin and precipitat\$	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 12:57
S42	5249	insulin.ti.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 12:57
S43	53355	insulin.ti. "530"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 12:59
S44	394	insulin.ti. and "530"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/05/12 12:59
S45	1186	hirudin and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/01/26 13:15
S46	53	hirudin near5 fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/01/26 13:15
S47	14	S46 and (adjust\$ near3 pH!)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/01/26 14:12
S48	177	fermentation.ti. and (fed adj batch)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/15 08:51

## EAST Search History

S49	29	fermentation.ti. and (fed adj batch) and yeast and cerevisiae	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/15 08:54
S50	29	fermentation.ti. and (fed adj batch) and cerevisiae	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/15 09:19
S51	3231	fermentation and cerevisiae and (fresh adj (media or medium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/15 09:21
S52	99	fermentation and cerevisiae.clm. and (fresh adj (media or medium))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2006/02/15 09:21
S53	852	hirudin same (fusion OR fused OR chimera\$)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 10:12
S54	289	S53 AND yeast	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 10:12
S55	259	S53 and (increase\$ same (yield OR stability))	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 10:12
S56	30	habermann.in. AND hirudin AND yeast	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 13:55
S57	2	"5434073".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 14:31
S58	33	"hirudin fusion" OR "fusion of hirudin"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 14:32
S59	20	hirudin same (arg OR arginine) same trypsin	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/03 14:40
S60	4	hirudin same (mini-proinsulin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:02
S61	4	hirudin and mini-proinsulin and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:10

## EAST Search History

S62	1178	hirudin and (proinsulin OR insulin) and fusion	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:10
S63	159	hirudin same ((proinsulin OR insulin) and fusion)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:10
S64	2	"20020173620".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:33
S65	4	"7202059".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 08:37
S66	2	"5919895".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 09:49
S67	14	habermann.in. and (miniproinsulin OR mini-proinsulin)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2008/12/04 09:59